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TI Oil-based inks with excellent redispersibility and storability, used for

ink jet process for making printing plates with excellent printing durability

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PA Fuji Photo Film Co., Ltd., Japan

SO Jpn. Kokai Tokkyo Koho, 31 pp.

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DT Patent

LA Japanese

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PI	JP 10204354	A2	19980804	JP 1997-21011	19970120
PRAI	JP 1997-21011		19970120		

AB The title inks contain dispersed resin particles obtained by polymerizing a solution containing monofunctional monomer(s) (soluble in polymerization medium and forming polymers insol. in the medium) in the presence of a dispersion stabilizing resin (soluble in the polymerization medium) that is a comb-type copolymer containing, as a copolymer component, a macromer (Mw 1 x 10³ to 2 x 10⁴) terminated by CH(a1):C(a2)X1- at one end and CH(a1):C(a2)(X1Q1) in the main chain or comb part of the copolymer, wherein X0 = CO₂, O₂C, CH₂O₂C, CH₂CO₂, O, SO₂, CO, CONR11, SO₂NR11, phenylene; R11 = H, hydrocarbyl; Q1 = C10-22 alkyl, alkenyl; a1, a2 H, halogen, cyano, hydrocarbyl, CO₂Z1; Z1 = H, hydrocarbyl.

IC ICM C09D011-00

ICS B41M005-00; C09D155-00; C08F290-06

CC 74-6 (Radiation Chemistry, Photochemistry, and Photographic and Other

Reprographic Processes)

ST printing plate jet ink polymer particle; comb polymer dispersant resin

particle

IT Polymers, preparation

RL: IMF (Industrial manufacture); TEM (Technical or engineered material

use); PREP (Preparation); USES (Uses)

(block; oil-based inks with excellent redispersibility and storability,

used for ink jet process for making printing plates with excellent

printing durability)

IT Polymers, preparation

RL: IMF (Industrial manufacture); TEM (Technical or engineered material

use); PREP (Preparation); USES (Uses)

(comb; oil-based inks with excellent redispersibility and

storability,
 used for ink jet process for making printing plates with
 excellent
 printing durability)

IT Polymers, preparation
 RL: IMF (Industrial manufacture); TEM (Technical or engineered
 material
 use); PREP (Preparation); USES (Uses)
 (graft; oil-based inks with excellent redispersibility and
 storability,
 used for ink jet process for making printing plates with
 excellent
 printing durability)

IT Inks
 (jet-printing; oil-based inks with excellent redispersibility and
 storability, used for ink jet process for making printing plates
 with
 excellent printing durability)

IT Lithographic plates
 (offset; oil-based inks with excellent redispersibility and
 storability, used for ink jet process for making printing plates
 with
 excellent printing durability)

IT 75-08-1DP, Thioethanol, lauryl methacrylate-stearyl acrylate
 copolymer
 terminated by, esters with unsatd. carboxylic acids 106-91-2DP,
 reaction
 products with mercaptopropionic acid-terminated PMMA 107-96-0DP,
 Mercaptopropionic acid, PMMA terminated by, reaction products with
 glycidyl methacrylate 625-38-7DP, 3-Butenoic acid, esters with
 hydroxyethylthio-terminated lauryl methacrylate-stearyl acrylate
 copolymer
 1075-49-6DP, 4-Vinylbenzoic acid, esters with hydroxyethylthio-
 terminated
 lauryl methacrylate-stearyl acrylate copolymer 2638-94-0DP,
 4,4'-Azobis(4-cyanovaleric acid), poly(stearyl methacrylate)-
 terminated
 by, reaction products with glycidyl methacrylate 6268-48-0DP,
 11-Acrylamidoundecanoic acid, esters with hydroxyethylthio-
 terminated
 lauryl methacrylate-stearyl acrylate copolymer 9003-32-1DP,
 Poly(Ethyl
 acrylate), mercaptopropionic acid-terminated, reaction products with
 glycidyl methacrylate 9003-53-6DP, Polystyrene, mercaptopropionic
 acid-terminated, reaction products with glycidyl methacrylate
 9003-63-8DP, Poly(Butyl methacrylate), mercaptopropionic acid-
 terminated,
 reaction products with glycidyl methacrylate 9011-14-7DP, PMMA,
 mercaptopropionic acid-terminated, reaction products with glycidyl
 methacrylate 20882-04-6DP, 2-Methacryloyloxyethyl succinate,

esters

with hydroxyethylthio-terminated lauryl methacrylate-stearyl
acrylate
copolymer 24615-84-7DP, 2-Carboxyethyl acrylate, esters with
hydroxyethylthio-terminated lauryl methacrylate-stearyl acrylate
copolymer

25639-21-8DP, Poly(octadecyl methacrylate), azobis(cyanovaleric
acid)-terminated, reaction products with glycidyl methacrylate
25639-21-8DP, Poly(Octadecyl methacrylate), mercaptopropionic
acid-terminated, reaction products with glycidyl methacrylate
25719-52-2DP, Poly(Dodecyl methacrylate), mercaptopropionic
acid-terminated, reaction products with glycidyl methacrylate
77756-42-4DP, Tridecyl acrylate homopolymer, mercaptopropionic
acid-terminated, reaction products with glycidyl methacrylate
135784-92-8DP, mercaptopropionic acid-terminated, reaction products

with

glycidyl methacrylate 138005-06-8DP, Poly(2,3-diacetoxypropyl
methacrylate), mercaptopropionic acid-terminated, reaction products

with

glycidyl methacrylate 138114-86-0DP, mercaptopropionic acid-
terminated,
reaction products with glycidyl methacrylate 138114-93-9DP, Decyl
2-butenate homopolymer, mercaptopropionic acid-terminated, reaction
products with glycidyl methacrylate 140693-68-1DP, Dodecyl
methacrylate-octadecyl acrylate copolymer, thioethanol-terminated,

esters

with unsatd. carboxylic acids 163545-34-4DP, mercaptopropionic
acid-terminated, reaction products with glycidyl methacrylate
163545-36-6DP, mercaptopropionic acid-terminated, reaction products

with

glycidyl methacrylate 212135-79-0DP, mercaptopropionic acid-
terminated,
reaction products with glycidyl methacrylate 212135-80-3DP,
mercaptopropionic acid-terminated, reaction products with glycidyl
methacrylate

RL: IMF (Industrial manufacture); RCT (Reactant); PREP
(Preparation); RACT
(Reactant or reagent)

(oil-based inks with excellent redispersibility and storability,
used

for ink jet process for making printing plates with excellent
printing
durability)

IT 107-18-6DP, 2-Propen-1-ol, esters with carboxy-terminated decyl
methacrylate-octadecyl methacrylate graft copolymer, preparation
818-61-1DP, esters with carboxy-terminated decyl methacrylate-
octadecyl

methacrylate graft copolymer 868-77-9DP, esters with carboxy-
terminated

decyl methacrylate-octadecyl methacrylate graft copolymer 1074-61-

9DP,

4-Vinylbenzyl alcohol, esters with carboxy-terminated decyl
methacrylate-octadecyl methacrylate graft copolymer 21734-63-4DP,
Ethylene glycol monocrotonate, esters with carboxy-terminated decyl
methacrylate-octadecyl methacrylate graft copolymer 25012-65-1DP,

esters

with carboxy-terminated decyl methacrylate-octadecyl methacrylate

graft

copolymer 25719-52-2P, Poly(Dodecyl methacrylate) 44915-40-4DP,
N-(4-Hydroxybutyl)acrylamide, esters with carboxy-terminated decyl
methacrylate-octadecyl methacrylate graft copolymer 139357-99-6P,
Dodecyl methacrylate-octadecyl methacrylate-vinyl acetate copolymer
140693-68-1P, Dodecyl methacrylate-octadecyl acrylate copolymer
201602-07-5P, Butyl methacrylate-octadecyl acrylate copolymer
212135-81-4P, 2-Decanoyloxyethyl methacrylate-2-(dimethylamino)ethyl
methacrylate-dodecyl methacrylate copolymer 212135-82-5P,
4-Dodecyloxymethylstyrene-hexadecyl methacrylate block copolymer
212135-83-6P, Methacrylic acid-dodecyl methacrylate-octadecyl

acrylate

copolymer 212135-84-7P, Dodecyl methacrylate-octadecyl
acrylate-styrene copolymer 212135-85-8P, Dodecyl methacrylate-

octyl

2-acryloyloxyethyl 2-butenedioate-N-vinylpyrrolidone copolymer
212135-86-9DP, Decyl methacrylate-octadecyl methacrylate graft

copolymer,

functional group-terminated 212135-87-0DP, Isopropyl
methacrylate-octadecyl methacrylate graft copolymer, functional
group-terminated 212135-88-1DP, Isobutene-dodecyl methacrylate-

2,3-

bis(butanoyloxy)propyl methacrylate graft copolymer, functional
group-terminated 212135-89-2DP, Isobutene-hexadecyl methacrylate

graft

copolymer, functional group-terminated 212135-90-5DP, functional
group-terminated 212135-91-6DP, Isobutene-octadecyl methacrylate

graft

copolymer, functional group-terminated 212135-92-7DP,
Isobutene-styrene-docosyl methacrylate graft copolymer, functional
group-terminated 212135-94-9DP, methacrylate-terminated 212135-

95-0P,

Dodecyl methacrylate-octadecyl methacrylate-hexadecyl methacrylate-
vinyl

acetate block graft copolymer 212135-96-1P, Dodecyl methacrylate-
hexadecyl methacrylate-vinyl acetate graft copolymer 212135-97-2P,

Butyl

methacrylate-octadecyl acrylate-hexadecyl methacrylate-vinyl acetate
graft

graft

copolymer 212135-98-3P, Hexadecyl methacrylate-vinyl acetate-
methacrylic
acid-dodecyl methacrylate-octadecyl acrylate graft copolymer
212135-99-4P, Hexadecyl methacrylate-vinyl acetate-dodecyl

methacrylate-octadecyl acrylate-styrene graft copolymer 212136-00-0P,
Hexadecyl methacrylate-vinyl acetate-dodecyl methacrylate-octyl
2-acryloyloxyethyl 2-butenedioate-N-vinylpyrrolidone graft copolymer
212136-01-1P, Hexadecyl methacrylate-vinyl acetate-decyl
methacrylate-octadecyl methacrylate graft copolymer 212136-02-2P,
Hexadecyl methacrylate-vinyl acetate-isopropyl methacrylate-
octadecyl
methacrylate graft copolymer 212136-03-3P, Methyl acrylate-methyl
methacrylate-isobutene-dodecyl methacrylate-2,3-
bis(butanoyloxy)propyl
methacrylate graft copolymer 212136-04-4P, Crotonic acid-vinyl
acetate-isobutene-hexadecyl methacrylate graft copolymer 212136-
05-5P,
Methyl acrylate-methyl methacrylate-isobutene-2-dodecanoyloxyethyl
methacrylate-octadecyl methacrylate graft copolymer 212136-06-6P,
Decyl
methacrylate-octadecyl methacrylate-ethyl methacrylate-methyl
acrylate
graft copolymer 212136-07-7P, Decyl methacrylate-octadecyl
methacrylate-vinyl acetate-styrene graft copolymer 212136-08-8P,
Decyl
methacrylate-octadecyl methacrylate-vinyl acetate-vinyl propionate
graft
copolymer 212136-09-9P, 4-Dodecyloxymethylstyrene-hexadecyl
methacrylate-vinyl oleate block graft copolymer 212136-10-2P,
Dodecyl
methacrylate-octadecyl acrylate-octadecyl vinyl ether graft
copolymer
212136-11-3P, Dodecyl methacrylate-octadecyl acrylate-octyl
2-methacryloyloxyethyl succinate graft copolymer 212136-13-5P
212136-14-6DP, polymers 212136-15-7P 212136-16-8P, Methyl
methacrylate-ethyl acrylate-(compound on p. 27)-dodecyl
methacrylate-
octadecyl acrylate graft copolymer 212136-17-9P, Methyl
methacrylate-methyl acrylate-octadecyl α -chloroacrylate-isobutene-
hexadecyl methacrylate graft copolymer 212136-19-1P 212136-22-6P
212136-25-9P, Isobutene-octadecyl methacrylate-ethyl methacrylate-
methyl
acrylate-(compound on p.27) graft copolymer 212136-26-0P, Decyl
methacrylate-octadecyl methacrylate-ethyl methacrylate-methyl
acrylate-dodecyl acrylate-(compound on p. 27) graft copolymer
212136-27-1P, Decyl methacrylate-octadecyl methacrylate-methyl
methacrylate-2-cyanoethyl acrylate-methyl acrylate-(compound on p.
27) graft
copolymer 212136-28-2P, Decyl methacrylate-octadecyl methacrylate-
vinyl
acetate-styrene-vinyl propionate-(compound on p. 27) graft copolymer
212136-29-3P, Isobutene-octadecyl methacrylate-methyl methacrylate-
acrylic

acid-methyl acrylate-docosanyl acrylate graft copolymer 212210-82-
7P,
Dodecyl methacrylate-octadecyl methacrylate block copolymer
212210-83-8P, Hexadecyl methacrylate-dodecyl methacrylate-octadecyl
methacrylate-vinyl acetate graft copolymer
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